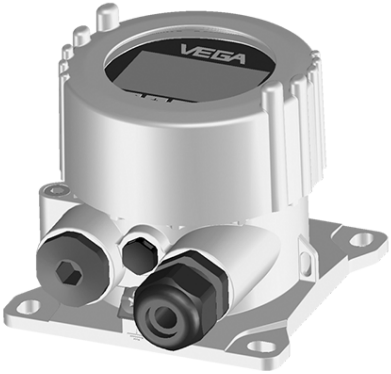
Safety instructions
VEGADIS DIS61.CI**
VEGADIS DIS81.IC******

IECEx PTB 06.0048

Ex ia IIC T6 Ga, Gb

VEGADIS61

VEGADIS81



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Contents

1 Area of applicability 3

2 General information 3

3 Technical data 3

4 Application conditions 4

5 Protection against static electricity 4

6 Installation/mounting 5

7 Material resistance 5

Please note:

These safety instructions are part of the documentation:

- 27720 - VEGADIS 61
- 43814 - VEGADIS 81
- 41920 - Certificate of conformity IECEx PTB 06.0048

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1 Area of applicability

These safety instructions apply to the indicating and adjustment unit VEGADIS DIS61.CI**, DIS81.IC****** according to Certificate of Conformity IECEx PTB 06.0048 with the 1. supplement (certificate number on the type label) and to all instruments with the number of the safety instruction (41919) on the type label.

2 General information

The VEGADIS DIS61.CI**, DIS81.IC****** is used for separate scaling and visualization of measured values.

The VEGADIS DIS61.CI**, DIS81.IC****** is suitable for applications in hazardous atmospheres of all combustible materials of explosion group IIA, IIB and IIC, for applications requiring EPL-Ga- or EPL-Gb-instruments. The atmospheres can also be combustible gases, mists or vapours.

If the VEGADIS DIS61.CI**, DIS81.IC****** are installed and operated in hazardous areas, the general Ex installation regulations IEC 60079-14 as well as these safety instructions must be observed.

The operating instructions as well as the corresponding valid Ex installation regulations or standards for electrical equipment must generally be observed.

The installation of explosion-endangered systems must always be carried out by qualified personnel.

EPL-Ga-instruments
The VEGADIS DIS61.CI**, DIS81.IC****** is installed in hazardous areas requiring an EPL-Ga-instrument.

EPL-Gb-instruments
The VEGADIS DIS61.CI**, DIS81.IC****** is installed in hazardous areas requiring an EPL-Gb-instrument.

3 Technical data

Electrical data
VEGADIS DIS61.CI, DIS81.IC******

Power supply and signal circuit: (terminals 5, 6, 7, 8)	Ignition protection type intrinsic safety Ex ia IIC For connection to a certified, intrinsically safe circuit. Maximum values: U_i = 6.4 V P_i = 332 mW L_i = negligibly low C_i = negligibly low For connection to the indicating and adjustment circuit, terminal 5, 6, 7, 8 of VEGAPULS PS6*.***, VEGAFLEX FX6/8*.***, VEGABAR BR5/6/8*.***, VEGACAL CL6*.*** or VEGASON SN6*.***. For the maximum permissible values for the external inductance L_o and capacitance C_o of the connecting line between VEGADIS 61/81 and the connected sensor are mentioned in the EC type approval certificate.

Circuit of the indicating and adjustment module: (spring contacts in the connection compartment)	Ignition protection type intrinsic safety Ex ia IIC Only for connection to the indicating and adjustment module PLICSCOM.

VEGADIS61.CI**	
Communication circuit: (I^2C-BUS socket in the connection compartment)	Ignition protection type intrinsic safety Ex ia IIC Only for connection to the intrinsically safe signal circuit of an interface converter VEGACONNECT (PTB 01 ATEX 2007, PTB 07 ATEX 2013 X).

The metal elements of the VEGADIS DIS61.CI**, DIS81.IC****** are electrically connected to the earth terminals.

The intrinsically safe circuit is electrically isolated from elements that may be earthed.

4 Application conditions

The max. permissible ambient temperatures depending on the temperature classes are specified in the following tables.

EPL-Ga-instruments

Temperature class	Temperature on the electronics housing
T6	-20 … +37 °C
T5	-20 … +50 °C
T4, T3, T2, T1	-20 … +60 °C

For applications requiring EPL-Ga-instruments, the pressure of the explosive mixtures must be between 0.8 … 1.1 bar. The application conditions during operation in areas with no explosive mixtures are stated in the manufacturer information.

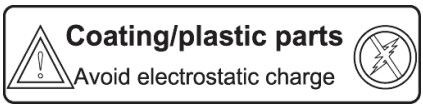
EPL-Gb-instruments

Temperature class	Temperature on the electronics housing
T6	-40 … +53 °C
T5	-40 … +68 °C
T4, T3, T2, T1	-40 … +85 °C

The prerequisites for operation in the absence of explosive mixtures can be found in the manufacturer specifications.

5 Protection against static electricity

The VEGADIS DIS61.CI**, DIS81.IC****** housing is provided with a caution label referring to the safety measures that must be taken in case electrostatic charges occur during operation.



Caution: Plastic parts! Danger of static charge!

- Avoid friction
- No dry cleaning
- Do not mount in areas with flowing, non-conductive products

6 Installation/mounting

The intrinsically safe power supply and signal circuit between VEGADIS DIS61.CI**, DIS81.IC****** and the sensor should be mounted ungrounded. The required insulation voltage is > 500 V AC.

7 Material resistance

The VEGADIS DIS61.CI**, DIS81.IC****** must only be used in media against which the materials of the wetted parts are sufficiently resistant.

Printing date:

All statements concerning scope of delivery, application, practical use and operating conditions of the sensors and processing systems correspond to the information available at the time of printing.
Subject to change without prior notice

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